

SERVICE INFORMATION LETTER

OXYGEN (ATA SYSTEM 35)

PRESSURE TRANSDUCER CONVERSION FOR:

**803163-0[] SERIES REGULATOR, TRANSDUCER & COUPLING ASSEMBLIES AND
801321-0[] SERIES THERMAL COMPENSATOR COUPLING ASSEMBLIES**

1. BACKGROUND

A. General

A new pressure transducer has been developed for use on certain types of aircraft oxygen systems. The end-item assemblies utilizing this new pressure transducer are similar to the 803163-0[] Series Regulator, Transducer & Coupling Assemblies and 801321-0[] Series Thermal Compensator Coupling Assemblies. These end-item assemblies are manufactured by Scott Aviation, Lancaster, NY, USA. Currently, Scott Pressure Transducer Part Number 10003108 (Boeing P/N BAC10-60734-2) is used in these end-item assemblies. Recently, new Scott Pressure Transducer Part Number 10008792 (Boeing P/N BAC10-62238-1) was incorporated into a similar set of end-item assemblies. The new Pressure Transducer 10008792 (BAC10-62238-1) uses a different method of pressure sensing from Pressure Transducer 10003108 (BAC10-60734-2). The new Pressure Transducer 10008792 (BAC10-62238-1) is manufactured by Druck Incorporated, Fairfield CT, USA (vendor code 1CE49) as Druck P/N PDCR-300-8120.

B. Interchange

Pressure Transducer 10003108 (BAC10-60734-2) and Pressure Transducer 10008792 (BAC10-62238-1) are interchangeable with respect to form and function. There are minor differences in overall dimensions. Electrical connection, pressure connection, electrical input and electrical output signal are the same. **End-item assemblies have different part numbers based on which of the two pressure transducers is used.** If new Pressure Transducer 10008792 (BAC10-62238-1) is used, the end-item assembly part number must be revised per the conversion procedure contained in this service information letter.

2. EFFECTIVITY

The following information provides end-item part numbers and aircraft models for this service information letter. Note that these end-item assemblies may be used on other manufacturer's aircraft.

SERVICE INFORMATION LETTER

2. EFFECTIVITY, continued

A. 803163-0[] Series Regulator, Transducer and Coupling Assembly

End-Item Assembly Equipped with 10003108 (BAC10-60734-2) Pressure Transducer (before conversion)	End-Item Assembly Equipped with New 10008792 (BAC10-62238-1) Pressure Transducer (after conversion)	Aircraft Models Used On
803163-01	803163-11	757-200
803163-02	803163-12	737-200
803163-03	803163-13	737-200, -300, -400, -500
803163-04	803163-14	
803163-05	803163-15	757-200
803163-06	803163-16	737-300, -500

B. 801321-0[] Series Thermal Compensator Coupling Assembly

End-Item Assembly Equipped with 10003108 (BAC10-60734-2) Pressure Transducer (before conversion)	End-Item Assembly Equipped with New 10008792 (BAC10-62238-1) Pressure Transducer (after conversion)	Aircraft Models Used On
801321-01	801321-11	747-100, -100B, -100BSUD, -200B, -200C, -200F, -300; 747SP; 747SR
801321-02	801321-12	747-100, -100B, -100BSUD, -200B, -200C, -200F, -300, -400; 747SP; 747SR
801321-03	801321-13	747-100, -100B, -100BSUD, -200B, -200C, -200F, -300; 747SP; 747SR
801321-04	801321-14	747-100, -100B, -100BSUD, -200B, -200C, -200F, -300, -400; 747SP; 747SR
801321-05	801321-15	747-100, -100B, -100BSUD, -200B, -200C, -200F, -300, -400; 747SP; 747SR
801321-06	801321-16	747-100, -100B, -100BSUD, -200B, -200C, -200F, -300, -400; 747SP; 747SR
801321-08	801321-18	
801321-09	801321-19	747-100, -100B, -100BSUD, -200B, -200C, -200F, -300; 747SP; 747SR; and 757-200

Note: The P/N 801321-00, -07, -10 and -17 end-item assemblies do not contain a pressure transducer.

SIL-35-06

SERVICE INFORMATION LETTER

3. REFERENCED DOCUMENTS

- A. Conversion of 803163-0[] Series Regulator, Transducer and Coupling Assembly requires Scott Component Maintenance Manual 35-12-03.
- B. Conversion of 801321-0[] Series Thermal Compensator Coupling Assembly requires Scott Component Maintenance Manual 35-01-59.
- C. All conversions require pertinent aircraft owner's manual to locate, remove and properly reinstall end-item assembly.

4. MATERIALS REQUIRED

- A. Pressure Transducer 10008792 (BAC10-62238-1) is required to perform this conversion. For a listing of Scott U.S. and International Authorized Distributors, please contact Scott Customer Service Department at fax 716-681-1089 or at address listed at the top of this page.
- B. Conversion of 803163-0[] Series Regulator, Transducer and Coupling Assembly requires Identification Label P/N 10005957, also available from your local Scott Authorized distributor.
- C. An extra-fine-point marking pen with permanent black ink (such as a SHARPIE®* extra-fine-point marker with black ink) is required for conversions.
* Note: SHARPIE is a registered trademark of the Sanford Corporation, Bellwood, Illinois USA.
- D. An optional material is a commercially-available ink remover or denatured alcohol for conversion of 801321-0[] Series.

5. CONVERSION INSTRUCTIONS

A. General Information

The conversion procedure outlined in this service information letter must be performed by a technician qualified for work on high-pressure aircraft oxygen systems. This conversion procedure must be performed off-aircraft. This conversion procedure can be performed by any of the Scott Authorized Repair and Overhaul Facilities. For a copy of the list of Scott U.S. and International Authorized Repair and Overhaul Facilities, please contact Scott Product Support Department. The parts required to perform this conversion are available from your local Scott Authorized Distributor. For a listing of Scott U.S. and International Authorized Distributors, please contact Scott Customer Service Department. If technical assistance is required, please contact Scott Technical Support Department. Scott Aviation may be contacted at fax 716-681-1089 or at 225 Erie Street, Lancaster NY 14086-9502, USA.

B. Removal of End-Item Assembly From Aircraft

- (1) Ensure that pressure has been released in high-pressure oxygen system containing end-item assembly.
- (2) Disconnect the end-item assembly from aircraft following instructions provided in your aircraft owner's manual.
- (3) Take appropriate steps necessary to prevent contamination of aircraft's high-pressure oxygen system where end-item assembly has been removed.
- (4) Properly cap end-item assembly and transfer to a shop proper for repair of high-pressure aircraft oxygen equipment.

SERVICE INFORMATION LETTER

5. CONVERSION INSTRUCTIONS, continued

C. Conversion of End-Item Assembly

- (1) For the 803163-04 Regulator, Transducer and Coupling Assembly only, locate end-item Identification Label (P/N 10005957) located on side of Pressure Transducer 10003108 (BAC10-60734-2). Refer to Figure 1. Record part number and serial number listed on Identification Label onto a piece of paper.
- (2) Utilizing pertinent Component Maintenance Manual listed in Section 3. of this service information letter, remove Pressure Transducer 10003108 (BAC10-60734-2) from end-item assembly and replace with Pressure Transducer 10008792 (BAC10-62238-1).
- (3) Perform functional tests on end-item assembly as required by TESTING AND FAULT ISOLATION section of pertinent Component Maintenance Manual listed in Section 3. of this service information letter.

D. Reidentification of End-Item Assembly

(1) Reidentification of 803163 Series, Except 803163-04/-14 (Refer to Figures 1 and 2)

- (a) Prepare for reidentification by locating Identification Label for 803163 Series positioned on the bell-shaped regulator cap of 27660 Series Regulator Assembly. There are two identification labels on bell-shaped regulator cap; make sure to locate correct label for 803163 Series.
- (b) Record part number and serial number listed on Identification Label for 803163 Series onto a piece of paper.
- (c) Using a typewriter or an extra-fine-point marking pen, type or write new 803163 Series part number in applicable space on new P/N 10005957 Identification Label (e.g., 803163-06 becomes 803163-16 which requires adding "803163-16" to new 10005957 Identification Label). Then type or write serial number (as recorded previously) in space provided. After serial number, add the letter "C" to indicate that pressure transducer conversion has been performed.
- (d) Remove existing P/N 10005759 Identification Label from bell-shaped regulator cap. Do not remove identification label for 27660 Series Regulator Assembly also located on bell-shaped regulator cap. Remove any remaining adhesive residue.
- (e) Apply new 10005957 Identification Label to bell-shaped regulator cap.
- (f) Properly cap 803163-1[] Series Regulator, Transducer and Coupling Assembly and transport to aircraft for reinstallation.

(2) Reidentification of 803163-04/-14 (Refer to Figures 1 and 2)

- (a) Using a typewriter or an extra-fine-point marking pen, type or write new 803163-14 part number in applicable space on new P/N 10005957 Identification Label (e.g., 803163-04 becomes 803163-14 which requires adding "803163-14" to new 10005957 Identification Label). Then type or write serial number (as previously recorded) in space provided on new 10005957 Identification Label. After serial number, add the letter "C" to indicate that pressure transducer conversion has been performed.
- (b) Apply new 10005957 Identification Label to 10008792 (BAC10-62238-1) Pressure Transducer.
- (c) Properly cap 803163-14 Regulator, Transducer and Coupling Assembly and transport to aircraft for reinstallation.

SIL-35-06

SERVICE INFORMATION LETTER

5. CONVERSION INSTRUCTIONS; D. Reidentification of End-Item Assembly, continued

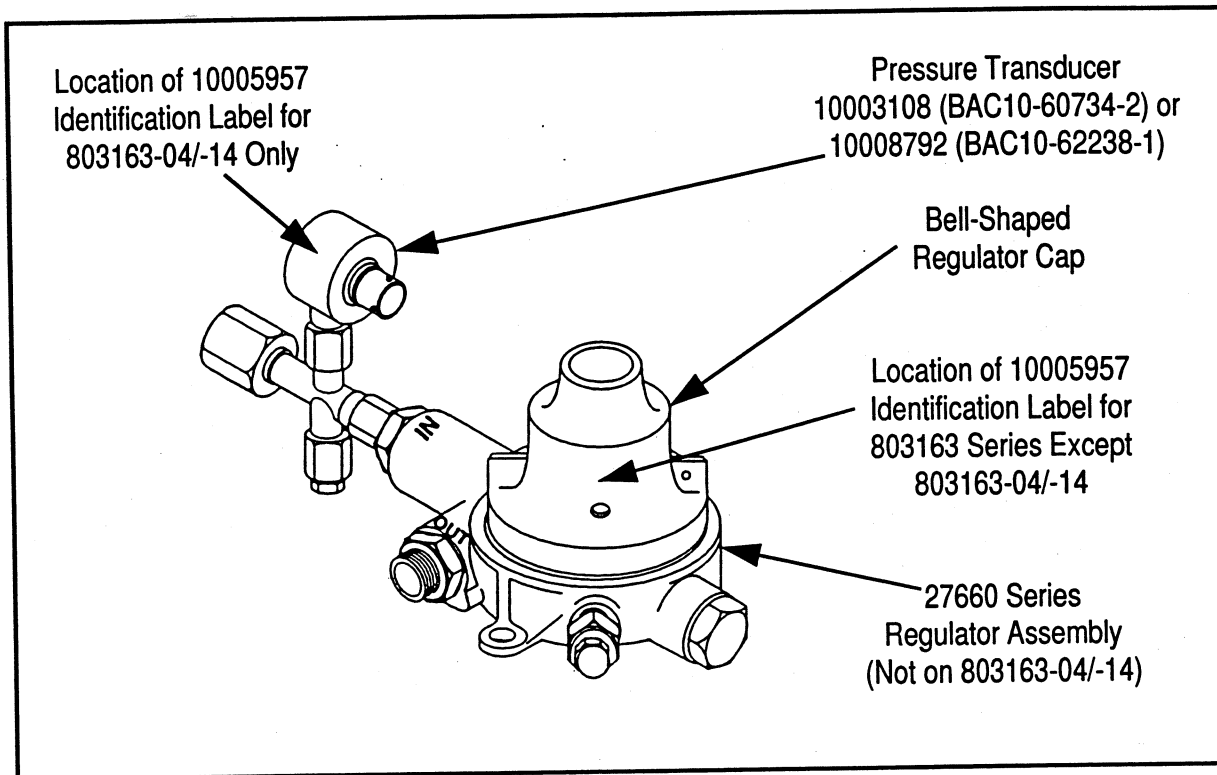


Figure 1
Typical 803163 Series
Regulator, Transducer and Coupling Assembly

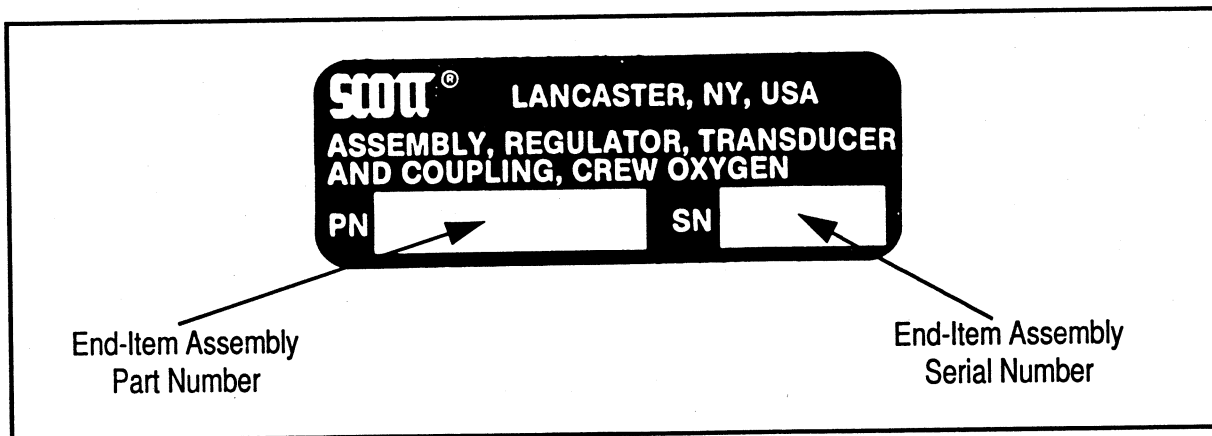


Figure 2
10005957
Identification Label

SERVICE INFORMATION LETTER

5. CONVERSION INSTRUCTIONS, D. Reidentification of End-Item Assembly, continued

(3) Reidentification of 801321 Series (Refer to Figure 3)

- (a) Locate ink-stamped part number on end-item assembly (e.g., 801321-03). Remove "dash number" portion of part number (e.g., "-03") using a commercially-available ink remover or denatured alcohol. An alternate method is to cross out dash number with an extra-fine-point marking pen.
- (b) Using an extra-fine-point marking pen, write new 801321 Series dash number in appropriate space (e.g., for 801321-03, which becomes 801321-13, add "13"). After the existing serial number (located near the part number), write the letter "C" to indicate that pressure transducer conversion has been performed.
- (c) Properly cap 801321-1[] Series Thermal Compensator Coupling Assembly and transport to aircraft for reinstallation.

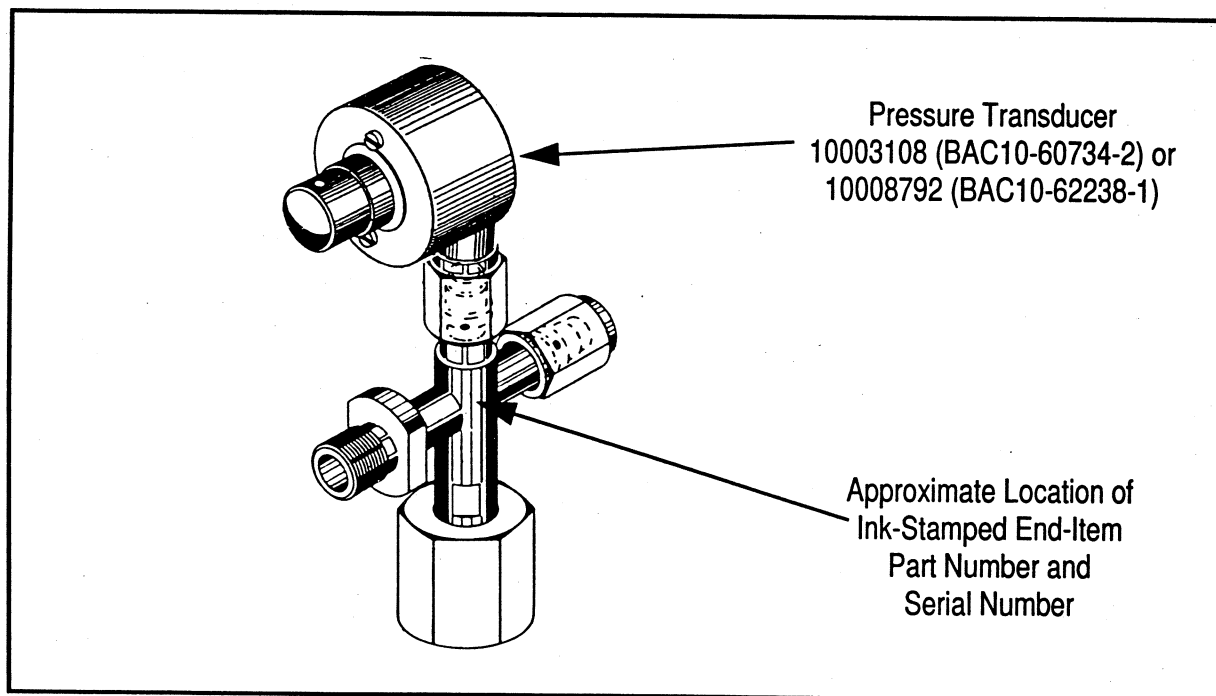


Figure 3
Typical 801321 Series
Thermal Compensator Coupling Assembly

E. Reinstallation of End-Item Assembly on Aircraft

- (1) Reinstall end-item assembly onto your aircraft following the procedure provided in your aircraft owner's manual.
- (2) After reinstallation, perform oxygen system high-pressure leak test and pressure indication check following the instructions provided in your aircraft owner's manual.

SIL-35-06